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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/052,611	01/18/2002		Allen R. Padwa	Mo6932/MD00-37-KU	3025
34947	7590	07/22/2005		EXAMINER	
LANXESS 111 RIDC P		-	YOON, TAE H		
PITTSBURG				ART UNIT	PAPER NUMBER
			1714	· · · · · · · · · · · · · · · · · · ·	

DATE MAILED: 07/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/052,611	PADWA					
Office Action Summary	Examiner	Art Unit					
	Tae H. Yoon	1714					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 15 June 2005.							
2a) ☐ This action is FINAL . 2b) ☑ This							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-25</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-25</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date Notice of Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152)							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application (PTO-152)					
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office Ac	etion Summary Pa	art of Paper No./Mail Date 20050718					

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Allowability indicated in the last Office action is withdrawn due to new ground of rejection.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-21, 24 and 25 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Ford (US 3,825,621).

Ford teaches the instant process of polymerization in example One (col. 10) wherein the use of 1,3 butadiene, dimethacrylate crosslinker, the instant amount of potassium persulfate and temperature and pre-agglomerated rubber particle size of 100 nm (0.1 micron) are taught. Said example meets the instantly recited equation inherently. Ford teaches employing co-monomers such as styrene or acrylonitrile and amounts thereof at col. 4, lines 49-64.

Thus, the instant invention lacks novelty.

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Claims 1-4, 10-16 and 22-25 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Dalton (US 3,652,721).

Dalton teaches the instant process of polymerization in example 1 wherein the use of the instant amount of potassium persulfate and temperature is taught. The seed latex has a aprticle size of 0.08 micron (80 nm) and thus pre-agglomerated rubber particles after polymerization of styrene and acrylonitrile would inherently meet the instant size of at least 85 nm and more than 100 nm. Said example meets the instantly recited equation inherently. The use of a crosslinker (col. 4, lines 29-48) and of agglomerating agents such as organic acid anhydride and aqueous solution of an organic acid (col. 5, line 61 to col. 6, line 22) is also taught.

Thus, the instant invention lacks novelty.

Claims 1-25 are rejected, under 35 U.S.C. 103(a) as obvious over Dalton (US 3,652,721) in view of Ford (US 3,825,621) or Kulich (US 5,633,304)

The instant invention further recites the use of 1,3 butadiene over Dalton. However, Dalton teaches such modification at col. 5, lines 21-26, and the use of 1,3 butadiene and/or isoprene and styrene or acrylonitrile in obtaining rubbery latex is a routine practice in the art as taught by Ford (col. 4, lines 55-64) and Kulich (col. 3, lines 19-27).

It would have been obvious to one skilled in the art at the time of invention to utilize said 1,3 butadiene in the polymerization of example 1 since Dalton teaches such

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modification and since the rubbery latex comprising 1,3 butadiene and/or isoprene and styrene or acrylonitrile is well known as taught by Ford and Kulich.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tae H. Yoon whose telephone number is (571) 272-1128. The examiner can normally be reached on Mon-Thu.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on (571) 272-1119. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tae H Yoon

Primary Examiner

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THY/July 18, 2005